

exiom

EX565-595TC(B)-144(HC)(182)BF

565-595 W

Topcon N-Type

 182 mm bifacial half cell

 2.278 x 1.134 mm

 31 kg



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The N-Type module with hot 2.0 technology has better reliability and lower LID/LETID.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Warranty | Garantía

25

Years | Años
Product
Producto

30

Years | Años
Linear power
Rendimiento lineal

1
TIER

Bloomberg

NEW ENERGY FINANCE

CERTIFIED
IEC
61730 Ed.1

CERTIFIED
IEC
61215 Ed.2

 **Anti-PID**
System voltage durability
PPP 56042



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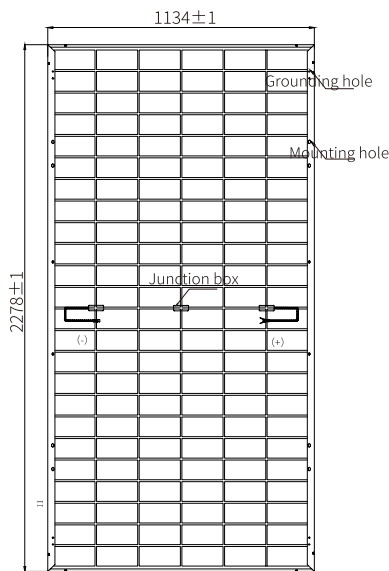
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Specifications subject to technical changes and tests.
Exiom Solution reserves the right of final interpretation.

TIPO TYPE	EX565TC-144BF	EX570TC-144BF	EX575TC-144BF	EX580TC-144BF	EX585TC-144BF	EX590TC-144BF	EX595TC-144BF
PERFORMANCE AT STC (POWER TOLERANCE 0-+5W)							
Potencia de salida Maximum Power	565	570	580	585	590	595	595
Voltaje máximo Max. voltage, VMP (V)	42.60	42.77	43.11	43.31	43.48	43.66	43.66
Intensidad máxima actual Current, IMP (A)	13.27	13.33	13.45	13.51	13.57	13.63	13.63
Voltaje circ. abierto Voltage open circuit, VOC (V)	50.7	50.90	51.30	51.50	51.70	51.90	51.90
Intensidad cortocircuito Short circuit current, ISC (A)	14.01	14.10	14.28	14.37	14.46	14.55	14.55
Modulo eficiencia Module Efficiency (%)	21.88	22.07	22.45	22.65	22.84	23.03	23.03

PERFORMANCE AT NOCT							
Potencia de salida Maximum Power	424.8	428.6	432.4	436.2	440.0	443.8	447.6
Voltaje máximo Max. voltage, VMP (V)	40.10	40.26	40.42	40.59	40.75	40.91	41.07
Intensidad máxima actual Current, IMP (A)	10.60	10.65	10.70	10.75	10.80	10.85	10.90
Voltaje circ. abierto Voltage open circuit, VOC (V)	48.16	48.35	48.54	48.73	48.92	49.11	49.30
Intensidad cortocircuito Short circuit current, ISC (A)	11.32	11.39	11.46	11.53	11.60	11.67	11.74
Max. potencia tolerada Max. power tolerance (W)	0-+3%						
Max. system Voltage (V)	1500VDC (IEC/UL) DC						
Maximum Series Fuse Rating (A)	25A						

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NOCT: Irradiance 800W/m², Ambient Temperature 25°C, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER AGAIN (REFERENCE TO 595W FRONT)					
Pmax gain (%)	5%	10%	15%	20%	25%
Voltaje máximo Max. voltage, VMP (V)	624.8	654.5	684.3	714.0	743.8



DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Dimensions: 2278*1134mm

N° of cells: 144 [2x(12x6)]

Cells: N type Mono-crystalline

Front glass: 2.0 mm High Transmission, Tempered glass

Connector: MC4 Compatible

Weight: 31 kg

Junction Box: IP68

Frame: Anodized aluminum alloy

Cable: 4mm² / 300mm

Front load: 5400Pa

COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS		I-V CURVAS CURVES	
Coefficiente de temp. Temp. Coefficient (P _{MAX})	-0.29%/°C	Temperatura celdas Cells temperature: 25°C. Current-Voltage & Power Voltage Curve	
Coefficiente de temp. Temp. Coefficient (ISC)	0.043%/°C		
Coefficiente de temp. Temp. Coefficient (VOC)	-0.25%/°C		
Nominal Operating Cell Temp. (NOCT)	41°C (±2°C)		
Operating Temperature	-40-+85°C		